

Human herpesvirus 1 (HHV-1) (strain F) Tegument protein VP16 (His & SUMO)

General Information

Synonyms:	ICP25;Alpha trans-inducing protein;Tegument protein VP16;Alpha-TIF;Vmw65
Protein Construction:	1-490 aa
Species:	HHV-1
Expression Host:	E. coli
Accession:	P04486
Molecular Weight:	70.3 kDa (predicted)
AA Sequence:	MDLLVDELFDADMDADGASPPPPRPAGGPKNTPAAPPLYATGRLSQAQLMPSPMPVPPAALFNRLDDLGF SAGPALCTMLDWTWNEDLFSALPTNADLYRECKFLSTLPSDVVEWGDAYVPERAQIDIRAHGDVAFPTLPATR DGLGLYYEALSRRFFHAELRAREESYRTVLNFCALYRYLRASVRQLHRQAHMRGRDRDLGEMLRATIADRY YRETARLARVFLHLYLFTREILWAAYAEQMMRPDLFDCLCCDLESWRQLAGLFQPFMFVNGALTVRGVPIE ARRLRELNHIREHLNPLVRSAAATEEPGAPLTPPTLHGNQARASGYFMVLIRAKLDSYSSFTTSPSEAVMREH AYSARTKNNYGSTIEGLLDLPDDAPEEAGLAAPRLSFLPAGHTRRLSTAPPTDVSLGDELHLDGEDVAMA HADALDDFDLMDLGDGSDSPGPGFTPHDSAPYGALDMADFEFEQMFTDALGIDEYGG

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Transcriptional activator of immediate-early (IE) gene products (alpha genes). Acts as a key activator of lytic infection by initiating the lytic program through the assembly of the transcriptional regulatory VP16-induced complex composed of VP16 and two cellular factors, HCFC1 and POU2F 1. VP16-induced complex represents a regulatory switch: when it is on, it promotes IE-gene expression and thus lytic infection, and when it is off, it limits IE-gene transcription favoring latent infection.; May play a role in the aggregation of tegument proteins around nucleocapsids during virus morphogenesis.

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